

## LABORATORY REPORT

Prepared For: Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114  
Attention: Diana Marquez

Project: 62589

Sampled: 03/29/12  
Received: 03/30/12  
Issued: 04/17/12 12:13

NELAP #01109CA / AZ100001 California ELAP#2446 Arizona DHS#AZ0728 Nevada #AZ01030 ORELAP #AZ100001

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

#### LABORATORY ID

PVC2180-01  
PVC2180-02  
PVC2180-03  
PVC2180-04

#### CLIENT ID

DP-125 W06  
DP-120 W01  
DP-120 W02  
DUP-6 W02

#### MATRIX

Water  
Water  
Water  
Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Linda Eshelman  
Project Manager

Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114  
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Report Number: PVC2180

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## 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: PVC2180-01 (DP-125 W06 - Water)</b>								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12D0160	1.0	ND	1	4/4/2012	4/12/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				82 %				
Surrogate: Nitrobenzene-d5 (27-143%)				88 %				
<b>Sample ID: PVC2180-02 (DP-120 W01 - Water)</b>								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12D0160	1.0	2.1	1	4/4/2012	4/12/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				82 %				
Surrogate: Nitrobenzene-d5 (27-143%)				41 %				
<b>Sample ID: PVC2180-03 (DP-120 W02 - Water)</b>								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12D0218	1.0	2.3	1	4/5/2012	4/12/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				77 %				
Surrogate: Nitrobenzene-d5 (27-143%)				84 %				
<b>Sample ID: PVC2180-04 (DUP-6 W02 - Water)</b>								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	12D0218	1.1	2.5	1.11	4/5/2012	4/12/2012	
Surrogate: 1,4-Dioxane-d8 (14-125%)				63 %				
Surrogate: Nitrobenzene-d5 (27-143%)				74 %				

TestAmerica Phoenix

Linda Eshelman  
Project Manager

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## METHOD BLANK/QC DATA

### 1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 12D0160 Extracted: 04/04/12</b>										
<b>Blank Analyzed: 04/11/2012 (12D0160-BLK1)</b>										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	14.4		ug/l	20.0		72	14-125			
Surrogate: Nitrobenzene-d5	17.3		ug/l	20.0		86	27-143			
<b>LCS Analyzed: 04/11/2012 (12D0160-BS1)</b>										<b>Q8</b>
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	85-116			
Surrogate: 1,4-Dioxane-d8	14.6		ug/l	20.0		73	23-132			
Surrogate: Nitrobenzene-d5	17.5		ug/l	20.0		88	28-150			
<b>LCS Dup Analyzed: 04/11/2012 (12D0160-BSD1)</b>										<b>Q8</b>
1,4-Dioxane	19.6	1.0	ug/l	20.0		98	85-116	4	20	
Surrogate: 1,4-Dioxane-d8	14.3		ug/l	20.0		72	23-132			
Surrogate: Nitrobenzene-d5	16.7		ug/l	20.0		84	28-150			
<b>Batch: 12D0218 Extracted: 04/05/12</b>										
<b>Blank Analyzed: 04/11/2012 (12D0218-BLK1)</b>										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	14.2		ug/l	20.0		71	14-125			
Surrogate: Nitrobenzene-d5	17.0		ug/l	20.0		85	27-143			
<b>LCS Analyzed: 04/11/2012 (12D0218-BS1)</b>										
1,4-Dioxane	19.2	1.0	ug/l	20.0		96	85-116			
Surrogate: 1,4-Dioxane-d8	15.6		ug/l	20.0		78	23-132			
Surrogate: Nitrobenzene-d5	16.0		ug/l	20.0		80	28-150			
<b>LCS Dup Analyzed: 04/11/2012 (12D0218-BSD1)</b>										
1,4-Dioxane	19.8	1.0	ug/l	20.0		99	85-116	3	20	
Surrogate: 1,4-Dioxane-d8	15.9		ug/l	20.0		80	23-132			
Surrogate: Nitrobenzene-d5	17.2		ug/l	20.0		86	28-150			

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Linda Eshelman  
Project Manager

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## DATA QUALIFIERS AND DEFINITIONS

**Q8** Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.

**ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

**RPD** Relative Percent Difference

**TestAmerica Phoenix**

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Project Manager

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PVC 2180

Attention: DIANA HANBICK

Laboratory: TEST AMERICA

Address: 425 COTTON CENTER BLVD STE 189

City/State/Zip: PHOENIX AZ 85090

Telephone: 602 437 3340

Document Control No: 0329/20

Lab. Reference No. or Episode No.:

Project Number: 62589

Sample Type

Client Name: QUALITY ANALYTICAL SERVICES

Matrix

[illegible]

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature):

Date/Time

Received By (signature):

Date/Time

Ice Present in Container:

Temperature Upon Receipt: \_\_\_\_\_

Relinquished By (signature):

Date/Time

Received By (signature):

Date/Time

Laboratory Comments:

4.0°C

C.S.